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Result
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Listing first 45 summaries
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       CN3B_HUMAN
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CYSP_TRYBB
SRA4_RAT
SOS2_MOUSE
CUT2_CAEEL
PRA_MYCTU
OCT6_HUMAN
CAP_SCHPO
CAPU_DROME
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GAT1_CHICK
INDC_BOVIN
ISP4_SCHPO
AMC2_ORYSA
VPX_HV2KR
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VPX_SIVSP
PRA_MYCLE
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VPX_HV2D1
VPX_HV2RO
VPX_SIVM1
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                     P17760 human immun P05939 human immun P05917 simian immun P05916 simian immun P05916 simian immun P1266 simian immun P1266 simian immun P12444 mycobacteri P09851 bos taurus O24175 oryza sativ O63003 rattus norv P19617 drosophila P14658 trypanosoma O53627 rattus norv Q02384 mus musculu P34682 caenorhabdi O53426 mycobacteri Q0355 homo sapien
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P19425 aedes aegyp
Q92207 mus musculu
Q9umn6 homo sapien
P40602 arabidopsis
Q9nsv4 homo sapien
P17678 gallus gall
P33046 bos taurus
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01-NOV-1990 (Rel. 16, Last sequence update)
01-FEB-1996 (Rel. 33, Last annotation update)
TRYPSIN-MODULATING OOSTATIC FACTOR (TMOF) (OOSH).
Aedes aegypti (Yellowfever mosquito).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Diptera; Nematocera; Culicoidea;
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                                                                                                                                                                                          Borovsky D., Carlson D.A., Griffin P.R., Shabanowitz J., Hunt D.F.; "Mosquito oostatic factor: a novel decapeptide modulating trypsin-like enzyme biosynthesis in the midgut.";
                                                                                                                                                                                                                                                                                                                                      STRAIN=VERO BEACH; TISSUE=Ovary; MEDLINE=90367888; PubMed=2394318;
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                                                                                                                                                                                                                                                    STRAIN-VERO BEACH; TISSUE=Ovary;
MEDLINE=93357794; PubMed=8353526;
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                                                                                                                      Hormone.
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                   17 YDPAPPPPPP 26
 1 YDPAPPPPPP 10
                                                                                                                               DEVELOPMENTAL STAGE: SYNTHESIZED AND RELEASED FROM FOLLICULAR EPITHELIUM 18-24 HRS AFTER A BLOOD MEAL. SYNTHESIS PEAKS AT 36 HRS AND STOPS AT 56 HRS. ; A36454; A36454.
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Pred. No. 1.2;
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9C223733C59F0C8A CRC64;
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YD -> DY (IN TMFO(B)).
236D0A7777776DC7 CRC64;
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DIA3_MOUSE
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20-AUG-2001 (Rel. 40, Last annotation update)
DIAPHANOUS PROTEIN HOMOLOG 3 (DIAPHANOUS-RELATED FORMIN 3) (DRF3)
(MDIA2) (P134MDIA2).
DIAPH3 OR DIAPA3.
MUS muscologia.
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20-AUG-2001 (Rel. 40, Creat
20-AUG-2001 (Rel. 40, Last
20-AUG-2001 (Rel. 40, Last
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                                                                                                                                                                                                                                                                                                                                                                                   use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RHO-GTP ACTIVATES THE DERS BY INTERMOLECULAR GBD-DAD INTERACTION.

-!- SIMILARITY: CONTAINS 1 GTPASE-BINDING THE GBD-DAD INTERACTION.

-!- SIMILARITY: CONTAINS 1 FORMIN HOMOLOGY 1 (FH1) DOMAIN.

-!- SIMILARITY: CONTAINS 1 FORMIN HOMOLOGY 2 (FH2) DOMAIN.

-!- SIMILARITY: CONTAINS 1 FORMIN HOMOLOGY 3 (FH3) DOMAIN.

-!- SIMILARITY: CONTAINS 1 DRF AUTOREGULATORY DOMAIN (DAD).

-!- SIMILARITY: BELONGS TO THE FORMIN HOMOLOGY FAMILY. DIAPHANOUS
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Tominaga T., Sahai E., T
submitted (SEP-1998) to
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Mammalia; Eutheria; Rodentia;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Diaphanous-related formins bridge Rho GTPase and Src tyrosine kinase
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=20142655; PubMed=10678165;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tominaga T
                                                                                                                                                                                                                                                                                                                                              EMBL; AF094519; AAC71771.1; ... MGD; MGI:1927222; Diap3.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FUNCTION: BINDS TO GTD-BOUND FORM OF RHO AND TO PROFILIN. ACTS IN A RHO-DEPENDENT MANNER TO RECRUIT PROFILIN TO THE MEMBRANE, WHERE IT PROMOTES ACTIN POLYMERIZATION. IT IS REQUIRED FOR CYTOKINESIS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRESS FIBER FORMATION, AND TRANSCRIPTIONAL ACTIVATION OF THE SERUM RESPONSE FACTOR. DER PROTEINS COUPLE RHO AND SRC TYROSINE KINASE DURING SIGNALING AND THE REGULATION OF ACTIN DYNAMICS.
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o the EMBL/GenBank/DDBJ databases.
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COILED COIL (POTENTIAL).
EH1 (PRO-RICH).
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                                               MEDLINE-99339983; PubMed-10409430; FitzGerald K.T., Diaz M.O.; FitzGerald K.T., Diaz M.O.; "MLL2: A new mammalian member of the trx/MLL family of genes."; Genomics 59:187-192(1999).

1- FUNCTION: POSSIBLY ACTS AS A TRANSCRIPTIONAL REGULATORY FACTOR.
                                                                                                                                                                                               "MLL2, the second human homolog of the Drosophila trithorax gene, maps to 19q13.1 and is amplified in solid tumor cell lines."; cncogene 18:7975-7984(1999).
                                                                                                                                                                                                                                                   Huntsman D.G., Chin S.-F., Muleris M., Batley S.J., Collins V.P., Wiedemann L.M., Aparicio S., Caldas C.,
                                                                                                                                                                                                                                                                                                                                                               Nagase T., Ishikawa K.-I., Nakajima D., Ohira M., Seki N., Miyajima N., Tanaka A., Kotani H., Nomura N., Ohara O.; "Prediction of the coding sequences of unidentified human genes. VII. The complete sequences of 100 new cDNA clones from brain which can code for large proteins in vitro."; DNA Res. 4:141-150(1997).
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DOMAIN
SEQUENCE
                                                                                                                                               PARTIAL SEQUENCE FROM N.A. (LONG AND TRUNCATED ISOFORMS) TISSUE-Placenta, and Bone marrow;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Sequence analysis of a 1 Mb region in human 19q13.1.", Submitted (NOV-1996) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Lamerdin J.E., McCready P.M., Adamson A.W., Burkhart-Schultz K., Garcia E., Kyle A., Ramirez M., Stilwagen S., Garnes J., Danganan | Bruce R., Quan G., Montgomery M., Ow D., Kobayashi A., Olsen A.O., Carrano A.V.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TRX2_HUMAN STANDARD; PRT; 2715 AA.
Q9UMN6; Q9UK25; Q95836; Q97668; Q15022;
20-AUG-2001 (Rel. 40, Created)
20-AUG-2001 (Rel. 40, Last sequence update)
20-AUG-2001 (Rel. 40, Last annotation update)
20-AUG-2001 (Rel. 40, Last annotation update)
TRITHORAX HOMOLOG 2 (MIXED LINEAGE LEUKEMIA GENE HOMOLOG 2 PROTEIN).
TRX2_OR_HRX2_OR_MLL2_OR_KIAA0340.
                                                                                                                                                                                                                                                                                          TISSUE=Testis, and Leukocyte; MEDLINE=20105772; PubMed=10637508;
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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                 SUBCELLULAR LOCATION: NUCLEAR (BY SIMILARITY). ALTERNATIVE PRODUCTS: 2 ISOFORMS; A LONG FORM
 TRUNCATED FORM; ARE PRODUCED BY ALTERNATIVE
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W; 95347A854CABC7CF CRC64;
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Pfam; PF02008; zf-CXXC; 1.
SMART; SM00384; AT_hook; 1.
SMART; SM00542; FYRC; 1.
SMART; SM00541; FYRN; 1.
SMART; SM00549; PHD; 4.
SMART; SM00508; POSTSET; 1.
SMART; SM00184; RING; 1.
SMART; SM00184; RING; 1.
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use by non-profit institutions as long as its content
modified and this statement is not removed. Usage by an
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InterPro; IPR003889; FYrich_C.
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### Promodom
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DISEASE: OFTEN AMPLIFIED IN PANCREATIC CARCINOMAS.

SIMILARITY: BELONGS TO THE TRITHORAX FAMILY OF TRANSCRIPTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AB002302; BAA20763.2;
AB186605; AAD56420.1;
AB104918; AAD17932.1;
AB10279; AAD26113.1;
AB105280; AAD26113.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TISSUE SPECIFICITY: WIDELY EXPRESSED. HIGHEST LEVELS IN TESTIS ALSO FOUND IN BRAIN, BONE MARROW, HEART, MUSCLE, KIDNEY, PANCRI SPLEEN, THYMUS, PROSTATE, OVARY, INTESTINE, COLON, PERIPHERAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SIMILARITY: CONTAINS 1 BROMODOMAIN.
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A.T HOOK (BY SIMILARITY).
A.T HOOK (BY SIMILARITY).
PHD-TYPE 1
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MISSING (IN ISOFORM TRUNCATED).
K -> E (IN REF. 5).
S -> Y (IN REF. 5).
E -> Q (IN REF. 5).
H -> Y (IN REF. 5).
D -> N (IN REF. 5).
                                                                                                                                                                           VPQEPAPVPS -> PLSQSLLLPMTLQLSLSLGQWAAPTTS ACLDSPLWSPLLLRPRCPLTGLQL (IN ISOFORM TRUNCATED).
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POLY-PRO.
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PHD-TYPE
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mentants M.R., Foster G.D., Blundell R.P., Robinson S.W., Kumar A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Viridiplantae; Streptophyta; Embryo
Spermatophyta; Magnoliophyta; eudicotyledons;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Arabidopsis thaliana (Mouse-ear cress).
Eukaryota; Viridiplantae; Streptophyta;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-FEB-1995 (Rel. 31, Created)
01-FEB-1995 (Rel. 31, Last sequence update)
01-WV-1995 (Rel. 32, Last annotation update)
01-WV-1995 (Rel. 32, Last annotation update)
ANTER-SPECIFIC PROLINE-RICH PROTEIN APG PRECURSOR.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entitles requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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SIGNAL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
                                                                                                                                                                                                                                                                                                              CHAIN
                                                                                                                                                                                                                                                                                                                                                                                          PROSITE;
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                                                                                                                                                                                                                                                                                                                                                                                                                                              InterPro;
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nes 12; Conser
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41 RLWPWPLWPRPYPQPWPMNPPTPDPSPKPVAP
                                                 1 RRWPW------WPWKWPLIGGGYDPAPPPPPP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TISSUE SPECIFICITY: FOUND IN SPOROPHYTIC AND GAMETOPHYTIC CETYPES IN THE ANTHER, ONLY IN MALE FERTILE PLANTS.

DEVELOPMENTAL STAGE: EXPRESSED IN MALE GAMETOGENESIS, DURING MICROSPORE DEVELOPMENT. HIGHER EXPRESSION IS FOUND DURING MICROSPORE MITOSIS WITH A DRAMATIC DECLINE DURING POLLEN
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xPro; IPR001087; Lipase_GDSL.
i; PF00657; Lipase_GDSL; 1.
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534 AA;
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Pred.
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                                                                                                                                                                                                                                                                                     ANTER-SPECIFIC PROLINE-RICH PROTEIN BY SIMILARITY.
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C0615B981BBEB7BF CRC64;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Submitted
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                                                         DOMAIN
VARSPLIC
                                                                                                                                                                                                                                       NON_TER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                             Pfam;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro;
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                                                                                                                                                                DOMAIN
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SIMILARITY: CONTAINS 1 FORMIN HOMOLOGY 1 (FH2) DOMAIN.
SIMILARITY: CONTAINS 1 FORMIN HOMOLOGY 2 (FH2) DOMAIN.
SIMILARITY: CONTAINS 1 FORMIN HOMOLOGY 3 (FH3) DOMAIN.
SIMILARITY: CONTAINS 1 DRF AUTOREGULATORY DOMAIN (DAD).
SIMILARITY: BELONGS TO THE FORMIN HOMOLOGY FAMILY. DIAPHANOUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FUNCTION: BINDS TO GTP-BOUND FORM OF RIO AND TO PROFILIN. ACTS IN A RHO-DEPENDENT MANNER TO RECRUIT PROFILIN TO THE MEMBRANE, WHERE IT PROMOTES ACTIN POLYMERIZATION. IT IS REQUIRED FOR CYTOKINESIS, STRESS FIBER FORMATION, AND TRANSCRIPTIONAL ACTIVATION OF THE SERUM RESPONSE FACTOR. DER PROTEINS COUPLE RHO AND SRC TYROSINE KINASE DURING SIGNALING AND THE REGULATION OF ACTIN DYNAMICS (BY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ALTERNATIVE PRODUCTS: 2 ISOFORMS; 1 (SHOWN HERE) AND 2: PRODUCED BY ALTERNATIVE SPLICING.
DOMAIN: DRFS ARE REGULATED BY INTRAMOLECULAR GBD-DAD BIN RHO-GTP ACTIVATES THE DRFS BY DISRUPTING THE GBD-DAD INT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SUBFAMILY.
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                                                                                                                                                                                                                                                                                                                                                                                                                                         AL137718; CAB70890.1; ALT_INIT.
AL354829; CAC17664.1; -
AL354829; CAC17665.1; -
Pro; IPR002205; DNA_topoisoIV.
Pro; IPR003104; FH2.
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PF02188; GOLOCO; 1.
; SM00498; FH2; 1.
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                                                                                                                                                                                                                                                                                           coil; Repeat; Alternative splicing
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                                                         304
379
801
137
241
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819
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3 (DIAPHANOUS-RELATED FORMIN 3) (DRF3)
  VSVETLEKNLROMGROLOQLEKELETFPPPEDLHDKFVTKI
F -> GLCLFKKHFMALIFSAKRLKIIPFICMYFPLSHSVF
IPNISF (IN ISOFORM 2).
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COILED COIL (POTENTIAL).
ARG/LYS-RICH (BASIC).
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                                                                                                                                                                  Tjandra N., Omichinski J.G., Gronenborn A.M., Clore G.M., Bax A.;
"Use of dipolar 1H-15N and 1H-13C couplings in the structure
determination of magnetically oriented macromolecules in solution.";
Nat. Struct. Biol. 4:732-738(1997).

-i- FUNCTION: TRANSCRIPTIONAL ACTIVATOR WHICH PROBABLY SERVES AS A
GENERAL SWITCH FACTOR FOR ERYTHROID DEVELOPMENT. IT BINDS TO DNA
SITES WITH THE CONSENSUS SEQUENCE (A/T)GATA(A/G) WITHIN REGULATORY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GAT1_CHICK P17678;
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SEQUENCE
               This
                                                                                                                                                                                                                                                                                                                                        Appella E., Stahl S.J., Gronenborn A.M.; "NMR structure of a specific DNA complex of Zn-containing DNA binding domain of GATA-1.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-AUG-1990 (Rel. 15, Last sequence update)
20-AUG-2001 (Rel. 40, Last annotation update)
ERYTHROID TRANSCRIPTION FACTOR (GATA-1) (ERYF1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          _CHICK
                                                                                                    + + +
                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=93324913; PubMed=8332909; Omichinski J.G., Clore G.M., Schaad O., Felsenfeld G., Trainor C.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A. MEDLINE=91065513; PubMed=2249770;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gallus gallus (Chicken).
Eukaryota; Metazoa; Chor
                                                                                                                                                                                                                                                                           STRUCTURE BY NMR OF 158-223.
MEDLINE-97448676; PubMed-9303001;
                                                                                                                                                                                                                                                                                                                         Science
                                                                                                                                                                                                                                                                                                                                                                                               STRUCTURE BY NMR OF 158-223
MEDLINE=93324913; PubMed=83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE=89376538; PubMed=2776214;
Evans T., Felsenfeld G.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                              Genes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Archosauria; Aves; Neognathae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "Activity and tissue-specific expression of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Yamamoto M., Ko L.J., Leonardo M.W., Beug H., Orkin S.H.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NCBI_TaxID=9031;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    327 GGGVPPPPPPPPP 339
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                                      TISSUE SPECIFICITY: ERYTHROCYTE.

DOMAIN: THE TWO FINGERS ARE FUNCTIONALLY DISTINCT AND COOPERATE ACHIEVE SPECIFIC, STABLE DNA BINDING. THE FIRST FINGER IS NECESSARY ONLY FOR FULL SPECIFICITY AND STABILITY OF BINDING, WHEREAS THE SECOND ONE IS REQUIRED FOR BINDING (BY SIMILARITY).

SIMILARITY: CONTAINS 2 GATA-TYPE ZINC FINGERS.
                                                                                                                               SUBCELLULAR LOCATION: NUCLEAR.
                                                                                                                                                            REGIONS
SWISS-PROT entry is copyright. It is produced through een the Swiss Institute of Bioinformatics and the EM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          erythroid-specific transcription
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              58:877-885(1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                                          multigene
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853 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                            4:1650-1662(1990).
                                                                                                                                                            OF GLOBIN GENES AND
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Neognathae; Galliformes;
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; B7FA9C745AE18CD9 CRC64;
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Pred. No.
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mes; Phasianidae; Phasianinae;
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 EMBL outstation
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Best Local S
Matches 10
Cullor J.S.; "Indolicidin, a neutrophils.";
                                                                                                                                                                                                                                     TISSUE=Bone marrow;
MEDLINE=92392368; PubMed=1520337;
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01-OCT-1993 (Rel.
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                                                             Selsted M.E., Novotny
                                                                                 TISSUE=Neutrophils;
MEDLINE=92165771; PubMed=1537821;
                                                                                                                                                                 del Sal G., Storici P., Schneider C., Romeo D., Zanetti M., "CDNA cloning of the neutrophil bactericidal peptide indolicidin."; Biochem. Biophys. Res. Commun. 187:467-472(1992).
                                                                                                                                                                                                                                                                                                                                                  Bovidae; Bovinae;
                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovoidea
                                                                                                                                                                                                                                                                                                                                                                                                                  Bos taurus (Bovine).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRINTS; PRO0619; GATAZNFINGER. SMART; SM00401; ZnF_GATA; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EMBL; M26209;
PIR; A32993; A
                                                                                                                               SEQUENCE OF 131-143.
                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    InterPro; IPR001164; Zi Pfam; PF00320; GATA; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PDB; 1GAU; 31-OCT
TRANSFAC; T00267;
                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=9913;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ZN_FING
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             InterPro; IPR002965; P_rich_extensn.
InterPro; IPR000679; ZnF_GATA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              inc-finger;
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; 3GAT; 28-JAN-98.
; 1GAU; 31-OCT-93.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1GAT; 31-OCT-93.
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110 134 GATA-TYPE 1.
164 188 GATA-TYPE 2.
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                    a novel
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35,
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71.4%;
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                    bactericidal tridecapeptide amide
                                                             M.J.,
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Last annotation updat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Last
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                                                             Morris W.L.,
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Pred.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      63; DB 1
No. 3.3;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   144 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                             update)
                                                             Tang Y.-Q., Smith W.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1;
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PIR; A42387; A42387; Cathelicidin.
InterPro; IPR001894; Cathelicidins; 1.
Pfam; PF00666; Cathelicidins; 1.
PROSITE; PS00946; CATHELICIDINS_1; 1.
PROSITE; PS00947; CATHELICIDINS_2; 1.
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SEQUENCE
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                         Submitted (MAR-1996) to the
                                                                                                                                                                                                  differentiation in Schizosaccharomyces Curr. Genet. 26:31-37(1994).
                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A. MEDLINE=95042833; PubMed=7954893;
                                                                                                                                                                                                                                                                                                                                                                                                                                                Schizosaccharomyces pombe (Fission yeast).
Eukaryota; Fungi; Ascomycota; Schizosaccharomycetes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ISP4_SCHPO STANDARD: PRT; 785 AA. P40900; Q9HGP2; P78943; 01-FEB-1995 (Rel. 31, Created) 20-AUG-2001 (Rel. 40, Last sequence update) 20-AUG-2001 (Rel. 40, Last annotation update) 20-AUG-2001 (Rel. 40, Last 
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[3]
                                                                                                                         STRAIN=972;
                                                                                                                                                   SEQUENCE FROM
                                                                                                                                                                                                                                                                                Sato
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                                                                                               Kohnosu A., Niwa O., Yano M.,
                                                                                                                                                                                                                                                                                                                                                                                                    Schizosaccharomyces.
                                                                                                                                                                                                                                                                                                                                                                                                                              Schizosaccharomycetales;
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                                                                                                                                                                                                                                                   Sato S., Suzuki H., Widyastuti U., Hotta Y., Tabata S. 
"Identification and characterization of genes induced
                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=4896;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ISP4 OR SPBC29B5.02C.
                                                 "S.pombe chromosome II cosmid 1228 sequence.";
                                                                           ľanagida M.;
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nes 6; Conserv
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TISSUE SPECIFICITY: LARGE GRAUULES OF REUTROPHILS.
PTM: ELASTASE MIGHT BE RESPONSIBLE FOR ITS MATURATION.
SIMILARITY: BELONGS TO THE CATHELICIDIN FAMILY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Siol. Chem. 267:4292-4295(1992).
FUNCTION: POTENT MICROBICIDAL ACTIVITY, ACTIVE AGAINST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SWISS-PROT entry is copyright. It is produced through a collaboration the Swiss Institute of Bioinformatics and the EMBL outstation -
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107
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75.0%;
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                         EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <u>ب</u>
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Pred. No. 2.1;
2; Mismatches
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BY SIMILARITY.
AMIDATION (G-144 PROVIDE AMIDE GROUP).
E3B1CBBE55C09911 CRC64;
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                                                                                               Saitoh S., Katayama
                                                                                                                                                                                                                            pombe.
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                                                                                                  T., Nagao
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DE ALLUCAN
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OC SPETMA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  01-AUG-1992 (Rel. 23, Created)
01-AUG-1992 (Rel. 23, Last sequence update)
01-DEC-1992 (Rel. 24, Last annotation update)
ALPHA-AMYLASE ISOZYME C2 PRECURSOR (EC 3.2.1.1) (1,4-ALPHA-D-GLUCAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   STRAIN=CV. IR26; TISSUE=Seed Goldman S., Mawal Y., Wu R.; Submitted (FEB-1992) to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EMBL;
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                                                             This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                                                               GERMINATION.
-1- CATALYTIC ACTIVITY: ENDOHYDROLYSIS OF 1,4-ALPHA-GLUCOSIDIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Spermatophyta;
Ehrhartoideae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Viridiplantae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Oryza sativa (Rice).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            -1- FUNCTION: IMPORTANT FOR BREAKDOWN OF ENDOSPERM STARCH DURING
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R; S43741; S43741.
RF45495; S45495;
RFLICT 725 725 MI
RFLICT 777 785 GE
QUENCE 785 AA; 89192 MW;
                                                                                                                                                                                                                           DEVELOPMENTAL STAGE: EXPRESSED AT A HIGH LEVEL DIRING GERMINATION IN THE ALEURONES CELLS UNDER THE CONTROL OF THE PLANT HORMONE GIBBERELLIC ACID AND IN THE DEVELOPING GRAINS AT A LOW LEVEL. SIMILARITY: BELONGS TO FAMILY 13 OF GLYCOSYL HYDROLASES, ALSO
                                                                                                                                                                                                                                                                                                                                                        SUBUNIT: MONOMER.
                                                                                                                                                                                                                                                                                                                                                                               LINKAGES IN OLIGOSACCHARIDES AND COFACTOR: BINDS A CALCIUM ION REC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CAUTION: REF.2 SEQUENCE IS INCORRECT DUE TO FRAMESHIFTS AND OTHER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCING ERRORS
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                                                                                                                                                                                                 KNOWN AS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    D14061; BAA03147.1; -
D83992; BAA12193.1; A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                 THE ALPHA-AMYLASE FAMILY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Magnoliophyta;
Oryzeae; Oryza
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TISSUE-Seed;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               33.9%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Streptophyta; Em
yta; Liliopsida;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 62;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MISSING (IN REF. 1).
GEFFGPAEW -> R (IN REF. 1;
3F19825269BFA75D CRC64;
                                                                                                                                                                                                                                                                                                                                                                                        ION REQUIRED FOR ITS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       445
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10;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Embryophyta; Tracheophyta
la; Poales; Poaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 785
                                                                                                                                                                                                                                                                                                                                                                                        ACTIVITY
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VPX_HV2KR
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                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                              modified and this statement is not removed. Usage by and for commercial entitles requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                   This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way
                                                                                                                                                                                                                                                                                                     Kraus G.K., Talbott R., Leavitt M., Luznick L., Schmidt A., Badel P., Bartz C., Morton W., Wong-Staal F., Looney D.J.; Submitted (APR-1995) to the EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VPX_HV2KR
Q74122;
                                                                                                                                                                                                                                                                                                                                                                                 Viruses; Retroid viruses; Retroviridae; Lentivirus.
                                                                                                                  SEQUENCE
                                                                                                                                        PRINTS; PRO0444; HIVVPRVPX.
                                                                                                                                                    InterPro; IPR000012; F
Pfam; PF00522; VPR; 1
                                                                                                                                                                              EMBL; U22047; AAA64578.1; -
                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                             Human immunodeficiency virus type 2 (isolate KR) (HIV-2).
                                                                                                                                                                                                                                                                                                                                                                                                                             VPX PROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                          01-NOV-1997
01-NOV-1997
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                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=73484;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      HSSP; P04063; 1AMY.
Mendel; 9695; ORYsa;Amyl;8.
InterPro; IPR000461; Alpha_amylase.
Pfam; PP00128; alpha-amylase; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Multigene family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
  97
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hydrolase;
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                                                              Local
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GGWRPGPPPPPP 108
                        GGYDPAPPPPPP 26
                                                  Similarity
9; Conser
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                                                                                                               111 AA;
                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           _Glycosidase; Carbohydrate metabolism; Calcium; Signal;
                                                                                                                                                                                                                                                                                                                                                                                                                    (Rel. 35, Created)
(Rel. 35, Last sequence update)
(Rel. 35, Last annotation update)
(X ORF PROTEIN) (VIRAL ACCESSORY PROTEIN).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ΑA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ALPHAAMYLASE.
                                                                                                          12619 MW; 00B36C204C0C364E CRC64;
                                                           33.3%;
75.0%;
                                                                                                                                                               HIV_ORFXR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      33.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             49207 MW;
                                                         Score 61; DB
Pred. No. 2.1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 61.5; D
Pred. No. 6.7;
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BY SIMILARITY.
BY SIMILARITY.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRT;
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                                            Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
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                                                                      DB 1; Length 111;
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                                               2
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RESULT 12
VPX_HYZA
ID VPX_H
AC P2411
DT 01-MA
DT 01-MA
DT 01-MA
DT 01-NO
DE VPX P
GN VPX.
OS Human
OC VITUS
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              VPX_HV2D1
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Best Local :
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VPX_HVZD1
VPX_HVZD1
P17760;
01-AUG-1990 (Rel. 15, Created)
01-AUG-1990 (Rel. 15, Last sequence update)
01-NOV-1997 (Rel. 35, Last annotation update)
01-NOV-1997 (X ORF PROTEIN) (VIRAL ACCESSORY PROTEIN).

**TINS TYPE 2 (isolate D194) (HI
                                                                                        Biesert I., Kreutz R., Immelmann A., Henco R., Meichsner C., Andreesen R., Gelderblom H., Ruebsamen-Waigmann H.;

"Molecular cloning of two west African human immunodeficiency virus type 2 isolates that replicate well in macrophages: a Gambian isolate, from a patient with neurologic acquired immunodeficiency syndrome, and a highly divergent Ghanian isolate.";

Proc. Natl. Acad. Sci. U.S.A. 86:2383-2387(1989).
           Kuehnel H.,
                                     MEDLINE=91045094; PubMed=2235509;
                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A. MEDLINE=89184631; PubMed=2467304;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human immunodeficiency virus type 2 (isolate D194) (HIV-2).
                                                               SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VPX_HV2CA
P24110;
01-MAR-1992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    InterPro; IPR000012; HIV_ORFXR
Pfam; PF00522; VPR; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PIR; D38475; ASLJCX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; D00835; BAA00712.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    entities requires a license agreement (See http://www.isb-sib.ch/announce/
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    immunodeficiency virus type 2 proviral clone (HIV-2CAM2).";
J. Gen. Virol. 72:721-724(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=91170959; PubMed=2005437; Tristem M., Hill F., Karpas A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=11715;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human immunodeficiency virus type 2 (isolate CAM2) (HIV-2).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VPX PROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-MAR-1992
01-NOV-1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Nucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         15 GGYDPAPPPPPP 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    112 AA;
           Kreutz
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Rel. 21, (Rel. 21, (Rel. 35,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hill F., Karpas A.; sequence of a Guinea-Bissau-derived human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (X ORF PROTEIN) (VIRAL ACCESSORY PROTEIN).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       33.3%;
75.0%;
Ruebsamen-Waigmann H.;
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Last annotation updat
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Pred. No. 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A717971725B94A7E CRC64;
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2.1;
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Best Local Similarity
Graphes 9; Conser
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Nucleic Acids Res. 18:6142-6142(1990).
-i- MISCELLANEOUS: THIS ISOLATE IS FROM A GAMBIAN CASE OF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBL; J04542; AAA76843.1; -.
EMBL; X52223; CAA36467.1; -.
PIR; S12155; S12155.
HIV; J04542; VPX$2D194.
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P06939;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRINTS; PRO0444; HIVVPRVPX.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro; IPR000012; HIV_ORFXR.
Pfam; PF00522; VPR; 1.
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01-JAN-1988 (Rel. 06, Last sequence update)
01-NOY-1997 (Rel. 35, Last annotation update)
                                                                                                                                                                  entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                    Guyader M., Emerman M., Sonigo P., Clavel F., Montagnier L.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human immunodeficiency virus type 2 (isolate ROD) (HIV-2).
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                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=11720;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Viruses;
                                                                                                                   EMBL; X05291; -; NOT_ANNOTATED_CDS
                                                                                                                                  EMBL; M15390; AAB00766.1; -
                                                                                                                                                                                                                                                                                                      Nature 326:662-669(1987)
                                                                                                                                                                                                                                                                                                                                                         Alizon M.;
SEQUENCE
                               PRINTS; PR00444; HIVVPRVPX.
                                                HIV; M15390; VPX$2ROD.
InterPro; IPR000012; HIV_ORFXR
Pfam; PF00522; VPR; 1.
                                                                                                                                                                                                                                                                                                                      immunodeficiency virus type 2.";
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                                                                                               126262; ASLJX2
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Retroid viruses; Retroviridae; Lentivirus
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Pred. No. 2
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      0A677EB6BDB5F665 CRC64;
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RESULT 1:
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01-NOV-1988 (Rel. 09,
01-OCT-1989 (Rel. 12,
                                                                                                                                                                                                                                                                         This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                             Tiollais P., Sonigo P.; "Sequence of simian immunodeficiency virus from macaque and its relationship to other human and simian retroviruses."; Nature 328.543-547(1987).

-I- MISCELLANEOUS: THIS IS A MACAQUE ISOLATE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Simian immunodeficiency virus (Mm142-83 isolate) (STV-MAC).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VPX PROTEIN (X ORF PROTEIN).
                                                                                                                                                                                                      EMBL; Y00277; CAA68382.1; -. PIR; D28887; ASLJX3. HIV; M16403; VPX$MM142.
                                                                                                                                                                                                                                                            or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Chakrabarti L., Guyader M., Alizon M., Daniel M.D., Desrosiers R.C.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=87287230;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Viruses; Retroid viruses; Retroviridae; Lentivirus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=11733;
                                                                                                                                 SEQUENCE
                                                                                                                                                           PRINTS; PR00444; HIVVPRVPX.
                                                                                                                                                                           Pfam; PF00522; VPR;
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